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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/543,090	07/22/2005	Eng-Chye Teoh	. 030285-0316928	5639	
909 7590 . 11/28/2007 PILLSBURY WINTHROP SHAW PITTMAN, LLP			EXAMINER		
P.O. BOX 10500			ALLEN, CA	ALLEN, CAMERON J	
MCLEAN, VA 22102		ART UNIT	PAPER NUMBER		
			1797		
			MAIL DATE	DELIVERY MODE	
			11/28/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/543,090	TEOH, ENG-CHYE			
Office Action Summary	Examiner	Art Unit			
	Cameron J. Allen	1709			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was realiure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status	•				
1) Responsive to communication(s) filed on 13 Se	eptember 2007.				
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 9-14,17 and 18 is/are pending in the a .4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 9-14 and 17-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer and the correction of the correction of the original transfer and the correction of the corr	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	•				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
AMachinoutta					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

DETAILED ACTION

Response to Arguments

The examiner would like to thank the attorney for the detailed response to the first action on the merits. The examiner takes notice that claims 1-8, 15-16 and 19-20 have been cancelled, 9-14 and 17-18 have been amended. In view of applicants amendments and arguments, the rejections described in the last office action are withdrawn. New rejections follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 9 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Mamontov SU 923961.

Regarding claim 9, Mamontov teaches a method for removing organic nitrogen from an aqueous liquid, said method comprising:

adding a nitrosonium ion generator into said aqueous liquid to remove nitrogen from organic-based nitrogen contaminants at a controlled temperature. (Abstract)

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Regarding claim 10, Mamontov teaches a method as claimed in claim 9, wherein the nitrosonium ion generator is a nitrous acid or a nitrite in an acidic media. (Abstract)

Claims 13,14, 17 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Jasim et al. US 5716528.

Regarding claim 13, Jasim teaches a method for removing organic and inorganic contaminants from an aqueous liquid, said method comprising: adding a peroxide in the presence of an activated carbon catalyst at a controlled pH to oxidize and remove organic and inorganic contaminants, wherein the catalyst is used as a particulate in a fixed bed reactor or moving bed reactor caused by the motion of fluid or gases, or by mechanical means through which the aqueous liquid to be treated comes in continuous contact with the catalyst in the presence of the peroxide. (Abstract) The examiner interprets the activated carbon to inherently have the same properties as the activated carbon in the instant application. The examiner interprets the word comprising to leave the claim open for the inclusion of unspecified ingredients even in major amounts. (MPEP 2111.03 Rev.5, Aug. 2006)

Regarding claim 14, Jasim teaches a method as claimed in claim 13, wherein the peroxide is hydrogen peroxide. (Abstract)

Regarding claim 17, Jasim teaches a method as claimed in claim 13, wherein the controlled pH a pH range is selected from a pH range of 2 to 12. (Column 2 line 49-51)

Regarding claim 18, Jasim teaches a method as claimed in claim 14,

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wherein the controlled pH a pH range is selected from a pH range of 2 to 12. (Column 2 line 49-51)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Momontov as applied above in claims 9 and 10 above.

Regarding claim 11, Mamontov teaches a method as claimed in claim 9, but not wherein the controlled temperature is between 0° to 100°C. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the controlled temperature between 0° to 100°C, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art.

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Regarding claim 12, Mamontov teaches a method as claimed in claim 10, but not wherein the controlled temperature is between 0° to 100°C. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the controlled temperature between 0° to 100°C, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cameron J. Allen whose telephone number is 571-270-3164. The examiner can normally be reached on M-Th 9-7pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Griffin can be reached on 571-272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CJA

WALTER D. GRIFFIN SUPERVISORY PATENT EXAMINER

Walt W. Suff